

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A robot system comprising:

a plurality of pendants held by each of a plurality of operators, wherein the pendants send out signals for controlling an operation of a single robot.

2. (currently amended): A robot controlling apparatus comprising:

~~pendants held by each of a main operator and a subordinate operator for operating a single robot, wherein~~

~~the pendant includes:~~

~~an enabling switch, a pendant held by each of a main operator and a subordinate operator, the pendant held by the main operator comprising a main enabling switch, and the pendant held by the subordinate operator comprising a subordinate enabling switch; and~~

~~a circuit adapted to interlock with the enabling switch to generate a driving signal for a servo power supply of the robot, and~~

~~a circuit for putting the servo power supply in an ON state, when both the main enabling switch and the subordinate enabling switch are closed, wherein,~~

~~the pendant held by the main operator includes a main enabling switch, and~~

~~the pendant held by the subordinate operator includes a subordinate enabling switch.~~

3. (currently amended): A robot controlling apparatus for operating a single robot ~~by pendants held by each of a main operator and a subordinate operator, the apparatus~~ comprising:

a pendant held by each of a main operator and a subordinate operator, the pendant held by the main operator comprising ~~an~~ a main enabling switch, and the pendant held by the subordinate operator comprising a subordinate enabling switch;

~~a circuit adapted to interlock with the enabling switch to generate a driving signal for a servo power supply of the robot, and~~

a detection switch for determining whether or not the subordinate enabling switch is effective, wherein:

~~the servo power supply is put in an ON state, when a logical sum is obtained of a status signal which becomes 0 when the subordinate enabling switch is opened and 1 when the subordinate enabling switch is closed and a status signal which becomes 0 when the detection switch is opened and 1 when the detection switch is closed, and a logical product becomes 1 of the logical sum and a status signal which becomes 0 when the main enabling switch is opened and 1 when the main enabling switch is closed, and wherein~~

~~the pendant held by the main operator includes a main enabling switch, and~~

~~the pendant held by the subordinate operator includes a subordinate enabling switch.~~

a first logic circuit for logically summing a first logic state and a second logic state; and

a second logic circuit for obtaining a logical product of a third logical state and a logical sum output by the first logic circuit by logically summing the first and second logic states,
wherein:

the first logic state corresponds to the opening and closing of the subordinate enabling switch, the second logic state corresponds to the opening and closing of the detection switch, and the third logic state corresponds to the opening and closing of the main enabling switch, wherein:

a signal is supplied to a servo power supply controlling device that controls an ON/OFF state of the servo power supply, based on the logical product generated by the second logic circuit.

4. (new): A robot controlling apparatus as claimed in claim 3, wherein the servo power supply controlling device puts the servo power supply in an ON state in response to the logical product being a high.

5. (new): A robot controlling apparatus as claimed in claim 3, wherein the first logic state is a high when the subordinate enabling switch is closed and the first logic state is a low when the subordinate enabling switch is opened.

6. (new): A robot controlling apparatus as claimed in claim 3, wherein the second logic state is a high when the detection switch is closed and the detection logic state is a low when the detection switch is opened.

7. (new): A robot controlling apparatus as claimed in claim 3, wherein the third logic state is a high when the main enabling switch is closed and the third logic state is a low when the main enabling switch is opened.